



<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. § 371</b>		ATTORNEY DOCKET NUMBER <b>P03096US2A-(B)001(d)</b> <b>10/5/2005</b> U.S. APPLICATION NO. (if known, see 37 C.F.R. § 1.53)
INTERNATIONAL APPLICATION NO. <b>PCT/US2005/038017</b>	INTERNATIONAL FILING DATE <b>20 October 2005</b>	PRIORITY DATE CLAIMED <b>26 October 2004</b>
TITLE OF INVENTION <b>FUNCTIONALIZED POLYMER WITH LINKING GROUP</b>		
APPLICANT(S) FOR DO/EO/US <b>YUAN-YONG YAN &amp; DAVID F. LAWSON</b>		
Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. § 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. § 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. § 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. § 371(c)(2)) a. <input type="checkbox"/> is included herewith (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. § 371(c)(2)) a. <input type="checkbox"/> is included herewith. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. § 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)) a. <input checked="" type="checkbox"/> are included herewith (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. § 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. § 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)).		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
11. <input type="checkbox"/> An Information Disclosure Statement (see 37 C.F.R. §§ 1.97 and 1.98). 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. §§ 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet (see 37 C.F.R. § 1.76). 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. §§ 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. § 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. § 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: <b>return receipt postcard, PTO-2038 (authorization to charge \$900.00)</b>		
<b>Certificate of Express Mailing</b>		
<input checked="" type="checkbox"/> Under 37 C.F.R. § 1.10, I certify that all documents referenced herein are being deposited, on the date indicated below, with the United States Postal Service "Express Mail Post Office to Addressee" service addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.		
Express Mail Mailing Label No. <b>EQ 556744989 US</b>	Signature of Person Making Certification 	
Date of Deposit <b>22 May 2006</b>	Printed Name of Person Making Certification <b>David G. Burleson</b>	

SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450

U.S. APPLICATION NO. (if known, see 37 C.F.R. § 1.5) <b>10/579954</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US2005/038017</b>		ATTORNEY DOCKET NUMBER <b>P03096US2A (BJ001d)</b>		
The following fees are submitted				<b>Calculations</b>	<b>PTO use only</b>	
21. <input checked="" type="checkbox"/> <b>Basic national fee</b> (37 C.F.R. § 1.492(a)) <span style="float: right;"><b>\$300.00</b></span>				<b>\$ 300.00</b>		
22. <input checked="" type="checkbox"/> <b>Examination fee</b> (37 C.F.R. § 1.492(c)) <span style="float: right;"><b>\$200.00</b></span> <input type="checkbox"/> WO prepared by ISA/US or IPER prepared by IPEA/US and indicates all claims satisfy provisions of PCT Article 33(1)-(4) <span style="float: right;"><b>\$0.00</b></span>				<b>\$ 200.00</b>		
23. <input checked="" type="checkbox"/> <b>Search fee</b> (37 C.F.R. § 1.492(b)) <span style="float: right;"><b>\$0.00</b></span> <input type="checkbox"/> WO prepared by ISA/US or IPER prepared by IPEA/US and indicates all claims satisfy provisions of PCT Article 33(1)-(4) <span style="float: right;"><b>\$0.00</b></span> <input type="checkbox"/> Search fee (37 C.F.R. § 1.445(A)(2) on IA paid to USPTO as ISA <span style="float: right;"><b>\$100.00</b></span> <input checked="" type="checkbox"/> ISR prepared by other ISA but provided or communicated previously to USPTO <span style="float: right;"><b>\$400.00</b></span> <input type="checkbox"/> All other situations <span style="float: right;"><b>\$500.00</b></span>				<b>\$ 400.00</b>		
<b>TOTAL OF 21, 22, and 23 =</b>				<b>\$ 900.00</b>		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. (37 C.F.R. § 1.492(j))						
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE			
31 - 100 =	0 / 50 =	0	× \$250.00	\$ 0.00		
<input type="checkbox"/> Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration later than the date of commencement of the national stage (37 C.F.R. § 1.492(h)).				\$ 0.00		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total claims	5 - 20 =	0	× \$50.00	\$ 0.00		
Independent claims	2 - 3 =	0	× \$200.00	\$ 0.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) <span style="float: right;">0</span>			× \$360.00	\$ 0.00		
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 900.00</b>		
<input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. § 1.27. Fees above are reduced by 50%.						
<b>SUBTOTAL =</b>				<b>\$ 900.00</b>		
<input type="checkbox"/> Processing fee of \$130.00 for furnishing the English language translation later than 30 months from the earliest claimed priority date (37 C.F.R. § 1.492(f)).				\$ 0.00		
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 900.00</b>		
<input type="checkbox"/> Fee for recording the enclosed assignment (37 C.F.R. § 1.21(h)). The assignment is accompanied by an appropriate cover sheet (37 C.F.R. §§ 3.28 and 3.31). \$40.00 per property.				\$ 0.00		
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 900.00</b>		
Amount to be refunded				XXXXXXXXXXXXXXXXXXXX	\$	
Amount to be charged				XXXXXXXXXXXXXXXXXXXX	\$	
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed.						
b. <input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>06-0925 (Bridgestone)</b> . A duplicate copy of this sheet is enclosed.						
d. <input checked="" type="checkbox"/> The fees are to be charged to a credit card. Credit card information provided on form PTO-2038.						
<b>NOTE: Where an appropriate time limit under 37 C.F.R. § 1.495 has not been met, a petition to revive (37 C.F.R. § 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b>						
SEND ALL CORRESPONDENCE TO:						
<b>Chief Intellectual Property Counsel</b> <b>Bridgestone Americas Holding, Inc.</b> <b>1200 Firestone Parkway</b> <b>Akron, Ohio 44317-0001</b> phone: 330/379-6850 fax: 330/379-4064						
				 SIGNATURE		
				<b>DAVID G. BURLESON</b> NAME		
				<b>38,090</b> REGISTRATION NUMBER		

INTERNATIONAL BUREAU OF WIPO

Int'l Appl. No.: PCT/US2005/038017	Int'l Filing Date: 20 October 2005	Earliest Priority Date Claimed: 26 October 2004
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Title of Invention:  
**FUNCTIONALIZED POLYMER WITH LINKING GROUP**

First Named Applicant:  
**BRIDGESTONE CORPORATION**

International Bureau of WIPO  
 34 chemin des Colombettes  
 1211 Geneva 20  
 SWITZERLAND

**INFORMAL COMMENTS ON THE WRITTEN OPINION OF THE ISA**

The Written Opinion of the International Search Authority mailed 2 February 2006 has been received and considered. Applicants gratefully acknowledge industrial applicability of all original claims and novelty of original claims 18-19.

None of the cited references, alone or in combination, are believed to teach or suggest the present claims. In this regard, Applicants submit that

- the teaching of D5 has been misunderstood or mischaracterized, specifically, neither the examples nor claims of D5 appear to teach that a polymer reacted with a polysiloxane can be further reacted with an additional functional group-forming compound; and
- none of D1-D4 teach the use of a cyclic compound that includes at least one siloxane unit in its ring structure to provide a functionalized polymer that then can undergo additional functionalization.

Further, Applicants do not agree with the characterization of the problem to be solved; see, e.g., page 2, lines 1-9 of the specification as filed.

Finally, Applicants consider the items mentioned in Box VIII to be best handled during national phase proceedings.

Respectfully submitted,

*David G. Burleson*

David G. Burleson  
 Attorney for Applicants

19 April 2006

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